# William D. Burke

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Experience		
2024	Post-doctoral Researcher, University of Nevada, Reno	
Education		
2022	University of California Santa Barbara, Santa Barbara, CA	
	PhD. in Environmental Science and Management	
2016	Indiana University, Bloomington, IN	
	Master of Science (M.S.) in Geography	
2013	Santa Clara University, Santa Clara, CA	
	Bachelor of Science (B.S.) in Environmental Science	
	Minor in Economics	

#### **Research Interests**

Ecohydrology, hydrologic modeling, hydroclimate, model development, GIS, ecoinformatics

#### **Publications**

- Ren, J., Hanan, E.J., Greene, A., Tague, C., Krichels, A.H., Burke, W.D., Schimel, J.P., Homyak, P.M., 2024. Simulating the Role of Biogeochemical Hotspots in Driving Nitrogen Export From Dryland Watersheds. Water Resources Research 60, e2023WR036008. <u>https://doi.org/10.1029/2023WR036008</u>
- Tague, C.N., Choate, J., Graup, L., Burke, W., Torres, R., Turpin, E., 2022. Two-scales of lateral moisture redistribution-and its importance for modeling drought impacts on ecohydrology. Frontiers in Hydrology 2022 237–174.
- Burke, W., Tague, C.N., Kennedy, M., Moritz, M., 2020. Understanding fuel treatments: how treatments interact with climate and biophysical setting to affect fire, water, and forest health. Frontiers in Forests and Global Change 3, 143. <u>https://doi.org/10.3389/ffgc.2020.591162</u>
- Burke, W.D., Ficklin, D.L., 2017. Future projections of streamflow magnitude and timing differ across coastal watersheds of the western United States. International Journal of Climatology 37, 4493– 4508. <u>https://doi.org/10/gcj2qz</u>
- Stewart, I.T., Bacon, C.M., Burke, W.D., 2014. The uneven distribution of environmental burdens and benefits in Silicon Valley's backyard. Applied Geography 55, 266–277. <u>https://doi.org/10.1016/j.apgeog.2014.09.016</u>

#### Teaching

Winter 2018	Teaching Assistant – ESM 263: Geographic Information Systems
Spring 2017	Teaching Assistant – ESM 232: Environmental Modeling
Winter 2017	Teaching Assistant – ESM 215: Landscape Ecology

### Indiana University

Spring 2016	Assistant Instructor – GEOG 109: Weather and Climate
Fall 2015	Assistant Instructor – GEOG 109: Weather and Climate

## Santa Clara University

Fall 2012 Teaching Assistant – ENVS 115: GIS in Environmental Science